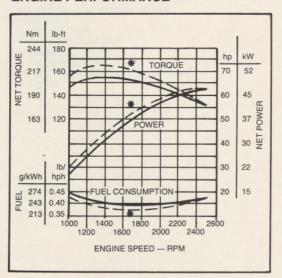


410B BACKHOE LOADER



ENGINE PERFORMANCE



★ With optional turbocharger

FEATURES

62 SAE net hp (46.2 kW)

Backhoe digging depth (SAE) 14 ft. 6 in. (4.42 m)

Unitized frame

Isolated engine and operator's station

Walk-in front entry

Designed for quietness

Closed-center hydraulic system

Weight distributed for working stability

Self-adjusting hydraulic wet-disk brakes

Inboard planetary final drives

Transaxle 1st and 2nd collar shift, 3rd and 4th synchronized

Full-power-shift reverser

Torque converter

Single-lever loader control

Two-lever backhoe control

Two-lever stabilizer control

Stabilizer lockouts-raise and lower

Multi-adjustable swing-around seat w/high backrest and armrests

Hydrostatic power steering

Soundproofed cab w/integral ROPS/FOPS

Vandal protection w/built-in locks

ADD VERSATILITY WITH:

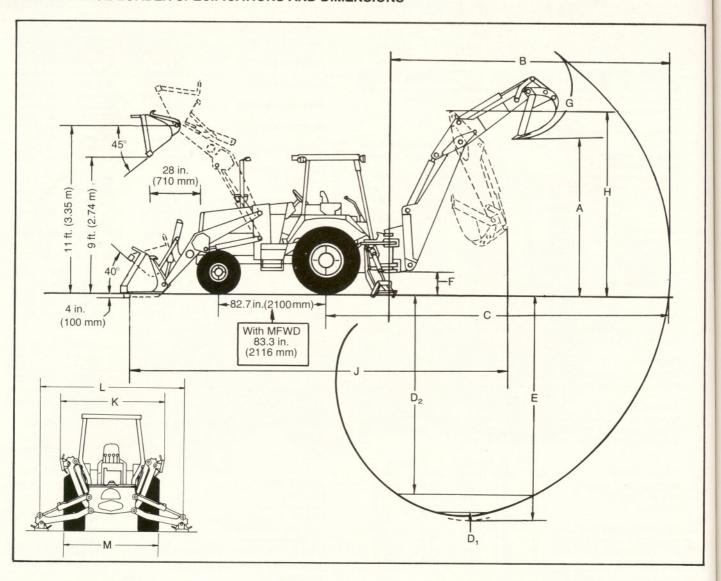
Mechanical front-wheel drive with Wet clutch—engage on the go Offset driveshaft for better ground clearance Extendable dipperstick

410B BACKHOE LOADER SPECIFICATIONS

with: go

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE Standards. Except where otherwise noted, these specifications

	tor.)	-		BILL ==		Hydraulic Cylinders	s:	Bore	Stroke	Rod
Rated Power @2500 rpm:			AE	DIN 70		Loader boom (2)		3.25 in.	30.0 in.	1.75 in.
Net				49 k	W			(83 mm)	(762 mm)	(45 mm)
Gross				aubauat auat	om alter	Loader bucket (1)		3.5 in.	24.4 in.	1.75 in.
Net engine power is with standard of nator, and cooling fan, at standard of						Packhao boom (1)		(89 mm) 4.5 in.	(620 mm) 38.5 in.	(45 mm) 2.25 in.
D fuel @35 API gravity. No derating	ng is requ	uired up to 5	5000 feet (1	500 m) altitu	de. (With	Backhoe boom (1) .		(114 mm)		(57 mm)
optional ACT*, 10,000 feet (3050 m		.) Gross pov	wer is witho	ut cooling far	1.	Backhoe crowd (1) .		4.0 in.	33.0 in.	2.0 in.
'Altitude compensating turbocharg	er							(102 mm)		(51 mm)
Engine: John Deere 4-2191	D					Backhoe bucket (1)		3.5 in.	27.4 in.	2.25 in.
Type	. 4-stro	ke cycle,	naturally	aspirated	diesel	Backhoe swing (2) .		(89 mm) 4.0 in.	(695 mm) 9.5 in.	(57 mm) 2.0 in.
Bore and stroke		4.02	x 4.33 in	. (102 x 11	10 mm)	Backing owing (E)		(102 mm)		(51 mm)
No. of cylinders				· · · · · · · · · · · · · · · · · · ·	4	Backhoe extendable				
Displacement	00 rpm	156	Ih-ft (212	0 Cu. In. (3 Nm) (21 6	.589 L)	dipper (1)		2.5 in.	48 in.	1.25 in.
viaximum het torque @ roc	o ipin	100		ercent torg		Backhoe stabilizers	(2)	(64 mm) 4.0 in.	(1220 mm) 20.3 in.	(32 mm) 2.0 in.
(W/AC	CT)	163		Nm) (22.5		Baokiloo olabiii2010 ((102 mm)		(51 mm)
Cooling for				ercent torg		Steering (1) regular a	axle	2.0 in.	9.5 in.	1.0 in.
Cooling fan				16	S 2 to 1	Cteoring (1) MEMD		(51 mm)		(25.5 mm)
ubricationPr	ressure	system	w/full-flov	v filter and	cooler	Steering (1) MFWD		2.0 in. (51 mm)	12.6 in. (320 mm)	1.0 in. (25 mm)
Main bearings					5	Tires:		Front		Rear
Air cleaner							12 51 -15	8 PR, I1		
Electrical system		. 51 amr	s w/cah	35 amps	regular		11L-15, 1			10 PR. R4
mornator		. or amp	o wicab,	Jo amps	Janui		11L-16, 1	2 PR, F3	19.5L-24,	10 PR, R4
Torque Converter:						MFWD	12.00-16	.5, 8 PR,	R4 19.5L-24,	10 PR, R4
Single stage, dual phase, o		ning state	or, 11-in.	(280 mm)	diame-	Wheel Treads:				
er, stall torque ratio 2.78:1.						Front			69	in. (1750 mm
Reverser:						Rear			64	in. (1625 mm
Modulated, full-power shift	with m	ultiple w	et-disk cli	utches Re	everser	MFWD — Front			68	in. (1727 mm
operating lever at left of ste			or alon of	G.C. 100. 110	701301					
	3					Wheelbase MFWD			82.7	in. (2100 mm
Transmission:						WII 110				111. (2110 11111
Manual shift with first an						Axle Ratings: S	tatic Rat	ing Dyn	amic Rating	SAE J43
engagement and third and synchronizers. Single shift				u with cor	ie-type	Front	56,000 II). E	56,000 lb.	9,000 lb.
oynomonizora. Omgle affilt	.5, 11	Joi moul	ou.			Poor	(25 450 k		25 450 kg)	(4080 kg)
		Forwa		Revers			51,000 lb (23 180 k		68,000 lb. 30 900 kg)	2,530 lb. (5680 kg)
Travel Speeds:		mph (k			cm/h)	Capacities:	, , ,	3) (0		
With standard 17.5L-24	1	3.1	5.0	3.6	5.8	Fuel tank			U.S.	Liter
rear and 11L-15 front tires	2	5.3 11.4	8.5 18.3		10.0 21.2	Engine coolant			23 gal	. 8 1
TOTAL WILLOW	4				38.8	Engine oil including	filter		9 at.	8.
With MFWD and 19.5L-24	1	3.3	5.3	3.9	6.3	Torque converter an	d			
(required) rear and 12.00-	2	5.7	9.2		10.6	reverser system .				1
16.5 front tires	3				22.8 41.7	Transaxle and hydra			19 gai	. 7
	4	22.0	33.3	20.0	71.7	Additional Standar	d Equipn			
			P	lanetary, i	nboard	Air precleaner	wlasfatu		ights: Halogen drivin	a liabte
Final Drives						Air cleaner, dry type element	wisalety		Halogen work	
				lically, carry	امدالما	Alternator, 35 amp w	v/transisto	rized	Turn signal ligh	nts
Service Brakes:									To the second to see here	lighte
Service Brakes: Hydraulic, applied with se						voltage regulator			Tail and brake	
Service Brakes: Hydraulic, applied with so when both pedals are depre						Antifreeze to −34°F			Flashing haza	rd lights
Service Brakes: Hydraulic, applied with so when both pedals are depriclosed and self-adjusting.	essed.	Wet disk	s and fac	ings are fu	ully en-	Antifreeze to -34°F Backhoe transport to	ock	L	Flashing haza oader bucket a	rd lights utomatic
Service Brakes: Hydraulic, applied with so when both pedals are depriclosed and self-adjusting.	essed.	Wet disk	s and fac	cings are fu	groove	Antifreeze to −34°F	ock ht front a	kle	Flashing haza	rd lights utomatic leveling
Service Brakes: Hydraulic, applied with so when both pedals are depriclosed and self-adjusting.	essed.	Wet disk	s and fac	ings are fu	groove	Antifreeze to —34°F Backhoe transport lo Cast-in-counterweigl Differential lock, foot Electric automatic de	ock ht front a t-engaged	kle d collar L	Flashing haza oader bucket a hydraulic self- oader bucket le Muffler, underho	rd lights utomatic leveling evel indicator
Service Brakes: Hydraulic, applied with so when both pedals are deproclosed and self-adjusting. Secondary Brake	essed. ba	Wet disk	s and fac	cings are fu	groove	Antifreeze to — 34°F Backhoe transport lc Cast-in-counterweigl Differential lock, foot Electric automatic de hydraulic pump	ock ht front a t-engaged estroke fo	kle d collar L	Flashing haza coader bucket a hydraulic self- coader bucket le Muffler, underho exhaust	rd lights utomatic leveling evel indicator od w/vertical
Service Brakes: Hydraulic, applied with so when both pedals are depriclosed and self-adjusting. Secondary Brake	essed. ba	Wet disk	s and fac	cings are fu	groove	Antifreeze to —34°F Backhoe transport lc Cast-in-counterweigl Differential lock, fool Electric automatic de hydraulic pump Electric combination	ock ht front a t-engaged estroke fo	kle d collar L	Flashing haza oader bucket a hydraulic self- oader bucket le fuffler, underho exhaust fultiple-fuse pro	rd lights utomatic leveling evel indicator od w/vertical
Service Brakes: Hydraulic, applied with swhen both pedals are deprictored and self-adjusting. Secondary Brake Steering: Hydrostatic powers the serving axle, regular: Turning radius (brake ap	essed. ba	Wet disk	s and fac	cings are funical "V" ferential rings of tr. 3 in. (3	groove ng gear	Antifreeze to — 34°F Backhoe transport lc Cast-in-counterweigl Differential lock, foot Electric automatic de hydraulic pump	ht front a t-engaged estroke fo tachome	kle d collar L or N	Flashing haza .oader bucket al hydraulic self- .oader bucket le Muffler, underho exhaust Multiple-fuse pro system	rd lights utomatic leveling evel indicator od w/vertical stected electric
Service Brakes: Hydraulic, applied with so when both pedals are depricted and self-adjusting. Secondary Brake Steering: Hydrostatic powers the steering axle, regular: Turning radius (brake applied of the steering control of the steering that is not self-attention of the steering axle, regular: Turning radius (brake applied of the steering control of the steering that is not self-attention of the steering axle, regular:	essed. ba er plied) .	Wet disk	s and fac	nical "V" rerential rir oft. 3 in. (3	groove ng gear 3.12 m) 9.00 m)	Antifreeze to — 34°F Backhoe transport Ic Cast-in-counterweig Differential lock, foot Electric automatic de hydraulic pump Electric combination hourmeter Electric shutoff on di pump	ock ht front a t-engaged estroke fo tachome iesel injec	kle d collar L or N	Flashing haza oader bucket a hydraulic self- oader bucket le fuffler, underho exhaust fultiple-fuse pro	rd lights utomatic leveling evel indicator od w/vertical etected electric for hydraulic
Service Brakes: Hydraulic, applied with so when both pedals are depricted and self-adjusting. Secondary Brake Steering: Hydrostatic powers axle, regular: Turning radius (brake ap) Clearance circle (brake a Steering wheel turns, left	essed. ba er plied) . applied) to righ	Wet disk	s and fac	nical "V" rerential rir oft. 3 in. (3	groove ng gear 3.12 m) 9.00 m) 2.9	Antifreeze to —34°F Backhoe transport Ic Cast-in-counterweigl Differential lock, foot Electric automatic de hydraulic pump Electric combination hourmeter Electric shutoff on di pump Emergency/parking	ock ht front at t-engaged estroke for tachome iesel injed brake	kle d collar L or N eter/ N	Flashing haza .oader bucket a hydraulic self- .oader bucket le Muffler, underho exhaust Multiple-fuse pro system Dil-to-air cooler f	rd lights utomatic leveling evel indicator od w/vertical etected electri for hydraulic eransaxle
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Service Brakes: Hydraulic, applied with so when both pedals are depreciosed and self-adjusting. Secondary Brake Steering: Hydrostatic powers Steering axle, regular: Turning radius (brake applied Clearance circle (brake as Steering wheel turns, leff runing radius (brake applied Clearance circle (brake as Steering wheel driver Turning radius (brake applied Clearance circle (brake as Steering wheel turns, leff right Axle oscillation stop to stee thydraulic System: Closed	ersed. ba er plied) applied) t to righ th to lei top ve (eng plied) applied) t to righ th to lei to righ th to lei top	Wet disk	s and fac	tings are functions are functi	groove ng gear 3.12 m) 9.00 m) 2.9 3.9 22 deg. 3.91 m) 9.30 m) 3.2 4.2	Antifreeze to — 34°F Backhoe transport lc Cast-in-counterweigl Differential lock, foot Electric automatic de hydraulic pump Electric combination hourmeter Electric shutoff on di pump Emergency/parking Engine sideshields v Foot and hand thrott Fuel tank contamina w/easy access dra Gauges for: Engine coolant ter Fuel tank level	ock ht front a t-engaged estroke fo tachome iesel injed brake w/built-in tles ant sump ain	kle L kle d collar L br Meter/	Flashing haza oader bucket a hydraulic self-oader bucket le duffler, underho exhaust dultiple-fuse pro system Dil-to-air cooler f system and to Dil-to-air cooler f converter and perator's platfo Deperator's canopheadliner dushbutton start lear fenders lear reflectors electriction indica air cleaner	rd lights utomatic leveling svel indicator od w/vertical stected electri for hydraulic ransaxle or torque d reverser rm floormat by or cab switch
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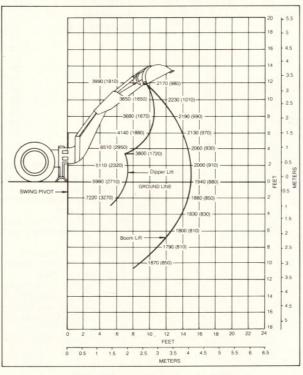


	Extendable Dipperstick			
Key:	Backhoe	Retracted	Extended	
A. Loading height, truck loading position 1	1 ft. 9 in. (3.59 m)	10 ft. 5 in. (3.17 m)	12 ft. 10 in. (3.91 m)	
B. Reach from center of swing mast 1	7 ft. 7 in. (5.36 m)	17 ft. 9 in. (5.41 m)	21 ft. 7 in. (6.58 m)	
C. Reach from center of rear axle	1 ft. 5 in. (6.53 m)	21 ft. 7 in. (6.58 m)	25 ft. 5 in. (7.75 m)	
D. Digging depth (SAE):			, ,	
(1) 2-ft. (610 mm) flat bottom	4 ft. 5 in. (4.40 m)	14 ft. 7 in. (4.44 m)	18 ft. 6 in. (5.64 m)	
(2) 8-ft. (2440 mm) flat bottom	3 ft. 3 in. (4.04 m)	13 ft. 6 in. (4.12 m)	17 ft. 4 in. (5.28 m)	
E. Maximum digging depth	4 ft. 6 in. (4.42 m)	14 ft. 7 in. (4.44 m)	18 ft. 6 in. (5.64 m)	
F. Ground clearance, minimum	2 in. (305 mm)	12 in. (305 mm)	12 in. (305 mm)	
G. Bucket rotation	23, 127/155 degrees	123, 127/155 degrees	123, 127/155 degrees	
H. Transport height 1	1 ft. 5 in. (3.48 m)	11 ft. 5 in. (3.48 m)	11 ft. 5 in. (3.48 m)	
J. Overall length, transport	3 ft. (7.01 m)	23 ft. (7.01 m)	23 ft. (7.01 m)	
K. Stabilizer width—transport	ft. 8 in. (2.34 m)	7 ft. 8 in. (2.34 m)	7 ft. 8 in. (2.34 m)	
L. Stabilizer spread—operating 9	ft. 10 in. (3 m)	9 ft. 10 in. (3 m)	9 ft. 10 in. (3 m)	
M. Overall width (less loader bucket) 8	0.7 in. (2050 mm)	80.7 in. (2050 mm)	80.7 in. (2050 mm)	
Digging force, bucket cylinder				
(power dig position)	0,200 lb. (45.4 kN) (4625 kg)	10,200 lb. (45.4 kN) (4625 kg)	10,200 lb. (45.4 kN) (4625 kg)	
Digging force, crowd cylinder 66	600 lb. (29.4 kN) (2995 kg)	6360 lb. (28.3 kN) (2880 kg)	4360 lb. (19.4 kN) (1980 kg)	
Swing arc	80 degrees	180 degrees	180 degrees	
Operator control	wo levers	Right foot treadle	Right foot treadle	
Bucket positions	2 or 20 deg. rollback/	12 or 20 deg. rollback/	12 or 20 deg. rollback/	
6	deg. forward	6 deg. forward	6 deg. forward	
Stabilizer angle rearward	3 degrees	13 degrees	13 degrees	
Lifting capacity, maximum boom @65° 42	200 lb. (1920 kg)	4050 lb. (1840 kg)	2440 lb. (1110 kg)	

410B BACKHOE LOADER LIFTING CAPACITIES

Lifting Capacities: Ratings made from bucket hinge pin, loader bucket and stabilizers on firm, level ground. Lifting capacities are 87 percent of the maximum lift over any point on the swing arc and do not exceed 75 percent of the tipping load. Angle between boom and ground at 65 degrees. Machine equipped with 24-in. (610 mm) trenching bucket, standard or optional dipperstick (as indicated below) and standard equipment.

Lift Capacity
Backhoe with standard dipperstick.
Based on SAE J31 (except w/loader bucket on ground*).



Rated lift capacities are in lb. (kg) Lift capacities are hydraulically limited.

Lift Capacity

Backhoe with extendable dipperstick, retracted.

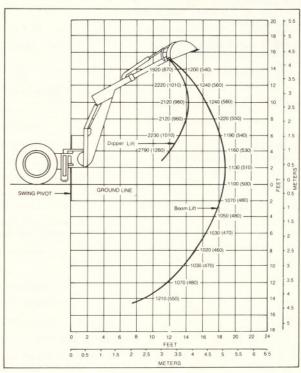
Based on SAE J31 (except w/loader bucket on ground*).

Rated lift capacities are in lb. (kg) Lift capacities are hydraulically limited.

Lift Capacity

Backhoe with extendable dipperstick, extended.

Based on SAE J31 (except w/loader bucket on ground*).



Rated lift capacities are in lb. (kg) Lift capacities are hydraulically limited.

^{*}Loader bucket on ground significantly improves side stability, therefore improving lift capacity to the side. Lift capacity over the rear is not affected.

410B BACKHOE LOADER

Optional		-1-1	
Optional	or Spe	cial Ed	uioment:

non-suspension SMV emblem 3-in. (76 mm) seat belt

Toolbox

Altitude-compensating engine turbocharger Automatic return-to-dig Backup alarm Cab pressurizer Cab with: 51-amp alternator Fabric-covered swivel seat, suspension or non-suspension Front defroster fan Front defroster fan
Front and rear wipers
Integral ROPS/FOPS
Standard heater — 19,000 Btu (5.6 kW)
Cold-weather starting aid, remote mounted
Deluxe heater w/fresh air intake —
40,000 Btu (11.7 kW)
Economy seat, vinyl covered, suspension or
rigid mounted
Engine coolant heater
Extendable dipperstick for backhoe Extendable dipperstick for backhoe Fire extinguisher Front counterweight Heavy-duty batteries
Instrument panel vandal cover
Mechanical front-wheel drive
Rear defroster fan Rear-view mirror, inside mounted, curved, heavy-duty
Rear wheel spacers for tire chain clearance
Reversible stabilizer pads
Ripper tooth for backhoe, 24 in. (610 mm)
Rotating beacon light
Swivel seat, vinyl covered, suspension or

Three- or four-lever, pedal-swing backhoe controls

BUCKETS						
	Width		Struck Capacity		Heaped Capacity	
Loader:	ln.	(mm)	Cu. Ft.	(m^3)	Cu. Yd.	(m ³)
General purpose	92 92	(2340) (2340)			1.0 1.25	(0.76) (1.00)
Long lip	89.4	(2270)			1.25	(1.00)
Backhoe: Standard-duty	12 16 18 24 24 30 36 36	(305) (406) (457) (610) (610) (762) (914) (914)	2.6 3.7 4.2 5.9 7.2 7.5 7.5	(0.07) (0.10) (0.12) (0.17) (0.20) (0.21) (0.21) (0.32)	3.0 4.5 5.1 7.5 8.8 10.0 10.0 14.5	(0.08) (0.13) (0.14) (0.21) (0.25) (0.28) (0.28) (0.41)
Heavy-duty	18 24 30	(457) (610) (762)	4.2 5.9 7.5	(0.12) (0.17) (0.21)	5.1 7.5 10.0	(0.14) (0.21) (0.28)
Ejector	24	(610)	4.6	(0.13)	5.7	(0.16)

Additional Available Equipment:*

Auxiliary bolt-on cutting edge for loader buckets Auxiliary fuel tank Auxiliary hydraulic valves and circuit for loader and backhoe Backhoe lift eye Bolt-on teeth for loader bucket Front windshield and door kit Grille guard Lateral slides for operator's seat Loader bucket chain hooks, outer Longer dippersticks
Light materials/snow loader buckets
Multipurpose loader buckets
1½ cu. yd. (1.01 m³) bucket
Radio or radio cassette

Extendable Dipperstick



^{*}See your John Deere dealer for further information.